

WHAT IS CLAIMED IS:

1. A junction box comprising:
 - a plurality of standard boxes, each of said standard boxes including a main casing containing at least one circuit, and male and female coupling portions provided on the outer opposite side surfaces of said main casing;
 - said plurality of standard boxes being juxtaposed together in accordance with different types of automobile vehicles by interconnecting said male and female coupling portions successively;
 - a lower casing member being attached to said main casing, the size of said lower casing member depending on the number of said standard boxes to be coupled for a special purpose; and
 - said lower casing member being provided with an attachment portion for a vehicle body that projects from said member.
2. The junction box according to claim 1, wherein each of said plurality of standard boxes contains a plurality of longitudinal bus bars disposed in parallel with one another.
3. The junction box according to claim 2, wherein each of said plurality of longitudinal bus bars have a strap-like portion extending horizontally, and a plurality of tabs projecting vertically from an upper edge of said strap-like portion.
4. The junction box according to claim 3, wherein a plurality of insulation displacement terminals project vertically from a lower edge of said strap-like portion.
5. The junction box according to claim 3, wherein each of said plurality of standard boxes has a connector containing section to accommodate said plurality of tabs.
6. The junction box according to claim 4, wherein at least one of a jumper cable and a conductive pin is connected to select ones of said plurality of insulation displacement terminals so that selected longitudinal bus bars are electrically coupled to one another.
7. The junction box according to claim 6, wherein said at least one of the jumper cable and the conductive pin electrically couples longitudinal bus bars from at least two different ones of said plurality of standard boxes.
8. The junction box according to claim 1, wherein the lower casing member and the main casing are attached to one another via the male and female coupling portions that abut the lower casing member.

9. The junction box according to claim 1, wherein the main casing has longitudinal opposing ends with a latching device that engages with the lower casing to attach the main casing and lower casing to one another.

10. The junction box according to claim 1, wherein the main casing has a side wall with a latching device located at substantially a central position of the sidewall to engage with an engaging portion of the lower casing.

11. The junction box according to claim 7, wherein the at least one of the jumper cable and the conductive pin is bent so as to electrically couple specified longitudinal bus bars of the at least two different ones of said plurality of standard boxes.

12. A method of coupling a plurality of standard boxes of the junction box of claim 1, comprising:

configuring the plurality of standard boxes to one another based on a specified arrangement;

attaching the plurality of standard boxes via the male and female mating portions;

latching the lower casing with the plurality of standard boxes; and

providing an electrical connection between respective ones of the plurality of standard boxes.

13. A junction box having a plurality of standard size boxes, a lower casing member, a connector containing section and at least one of a jumper cable and a conductive pin, wherein:

each of the plurality of standard size boxes includes

a main casing containing at least one circuit, the main casing having opposing side surfaces that have male and female coupling portions;

a plurality of longitudinal bus bars disposed in parallel with one another, wherein each of the plurality of longitudinal bus bars includes

a strap-like portion extending horizontally;

a plurality of tabs projecting vertically from an upper edge of the strap-like portion; and

a plurality of insulation displacement terminals projecting vertically from a lower edge of the strap-like portion;

the lower casing member being attached to the main casing and sized depending on the number of the standard boxes to be coupled for a special purpose, the lower casing member also being provided with an attachment portion for a vehicle body that projects from the member;

the connector containing section accommodates the plurality of tabs;

at least one of the jumper cable and the conductive pin is connected to select ones of the plurality of insulation displacement terminals so that selected longitudinal bus bars are electrically coupled to one another; and

wherein the at least one of the jumper cable and the conductive pin electrically couples longitudinal bus bars from at least two different ones of the plurality of standard boxes.